

F53 - SUPER DUPLEX - UNS S32750

MATERIAL DESCRIPTION

F53 Super Duplex UNS S32750 is a duplex stainless steel especially designed for service in aggressive chloride-containing environments. It has very good resistance to localized corrosion and stress corrosion cracking in combination with high mechanical strength.

APPLICABLE SPECIFICATIONS

ASTM A276/276M, ASTM A479/479M

NACE MR-0175/ISO 15156

NORSOK M-650, NORSOK M-630 - MDS-D57

1.4410. X2CrNiMoN25-7-4

HEAT TREATMENT

Intoco bar stock is in the solution annealed & water quenched condition

CHEMICAL ANALYSIS RANGE

ELEMENT	WEIGHT %	ELEMENT	WEIGHT %
C	0.03 Max	Cr	24.0 to 26.0
Si	1.00 Max	N	0.24 to 0.32
Mn	1.20 Max	Cu	0.50 Max
P	0.035 Max	Mo	3.00 to 5.00
S	0.02 Max	Ni	6.00 to 8.00

TYPICAL MECHANICAL PROPERTIES (Min unless stated) SOLUTION ANNEALED CONDITION

0.2% Yield ksi (MPa)	UTS ksi (MPa)	Ductility		Full size (10mm x 10mm) Charpy V Notch @ -46°C	Hardness HBW (HRC)
		%El 4D	%RA	Ft-lbs (J)	
80 (550)	109 (750)	25	45	33(45) (≤200mm Dia)	271 (28) max

The data contained in this datasheet is for informational purposes only.
Information may be revised at any time without prior notice.

Intoco Special Steels makes no representation or warranty of any kind (express or implied) and assumes no liability with respect to the accuracy or completeness of the information contained herein.

Although the data is believed to be representative of the product, the actual characteristics or performance of the product may vary from what is shown in this publication.

Nothing contained in this publication should be construed as guaranteeing the product for a particular use or applications